## Amendments to the Claims

Please amend Claims 1 as indicated:

Claim 1. (Currently Amended) A composition comprising

- a) an acid copolymer of the composition E/X/Y wherein E is ethylene, X is an α,β ethylenically unsaturated carboxylic acid, and Y is a C<sub>1-8</sub> alkyl acylate acrylate or alkyl methacrylate, X is present in 4-35 wt.% of the acid copolymer, and Y is present in 0-50 wt.% of the acid copolymer;
- b) about 10 to about 45 wt.% of a high molecular weight, monomeric organic acid or salt thereof based on total weight of components a), b), and c) provided that component (b) does not exceed 50 wt.% of (a) plus (b);
- c) about 1 to about 30 wt.% thermoplastic elastomer selected from copolyetheramides, copolyetheresters, elastomeric polyolefins, block polystyrene polydiene copolymers, and thermoplastic polyurethanes;
- d) a cation source present at a level sufficient to neutralize 95 to 110% of the combined acid content of components a) and b);
   and
- e) zero to about 60 wt.% filler based on weight of components a) plus b) plus c) plus e).

Claims 2 and 3. (Deleted)

Claim 4. (Previously amended) The composition of claim 1 wherein the  $\alpha,\beta$  ethylenically unsaturated carboxylic acid is acrylic acid or methacrylic acid.

Claim 5. (Original) The composition of claim 4 wherein the cation source is a source of cations selected from the group consisting of sodium, zinc, magnesium, lithium, potassium, calcium, and barium.

Claim 6. (Currently amended) A composition comprising

a) an acid copolymer of the composition E/X/Y wherein E is ethylene, X is an  $\alpha,\beta$  ethylenically unsaturated carboxylic acid, and Y is a C<sub>1-8</sub> alkyl acylate acrylate or alkyl

methacrylate, X is present in 6-35 wt.% of the acid copolymer, and Y is present in 5-25 wt.% of the acid copolymer;

- b) about 10 to about 45 wt.% of a high molecular weight, monomeric organic acid or salt thereof based on total weight of components a), b), and c) provided that component (b) does not exceed 50 wt.% of (a) plus (b);
- about 1 to about 30 wt.% thermoplastic elastomer selected from copolyetheramides, copolyetheresters, elastomeric polyolefins, block polystyrene polydiene copolymers, and thermoplastic polyurethanes;
- d) a cation source present at a level sufficient to neutralize 80 to 110% of the combined acid content of components a) and b);
   and
- e) zero to about 60 wt.% filler based on weight of components a) plus b) plus c) plus e).

Claim 7. (Original) The composition of claim 6 wherein component a) is an E/X/Y copolymer wherein X is present in 8-20 wt.% of the acid copolymer, and Y is present in 11-23 wt.% of the acid copolymer.

Claim 8. (Currently amended) The center, core, or mantle of a golf ball or one-piece golf ball comprising the composition of

- a) an acid copolymer of the composition E/X/Y wherein E is ethylene, X is an α,β ethylenically unsaturated carboxylic acid, and Y is a C<sub>1-8</sub> alkyl acylate acrylate or alkyl methacrylate, X is present in 4-35 wt.% of the acid copolymer, and Y is present in 0-50 wt.% of the acid copolymer;
- b) about 10 to about 45 wt.% of a high molecular weight, monomeric organic acid or salt thereof based on total weight of components a), b), and c) provided that component (b) does not exceed 50 wt.% of (a) plus (b);
- c) about 1 to about 35 wt.% thermoplastic elastomer selected from copolyetheramides, copolyetheresters, elastomeric

polyolefins, block polystyrene polydiene copolymers, and thermoplastic polyurethanes;

- d) a cation source present at a level sufficient to neutralize 95 to 110% of the combined acid content of components a) and b);
   and
- e) zero to about 60 wt.% filler based on weight of components a) plus b) plus c) plus e).

Claim 9. (Currently amended) The center, core, or mantle of a golf ball or one-piece golf ball comprising the composition of

- a) an acid copolymer of the composition E/X/Y wherein E is ethylene, X is an α,β ethylenically unsaturated carboxylic acid, and Y is a C<sub>1-8</sub> alkyl acylate acrylate or alkyl methacrylate, X is present in 4-35 wt.% of the acid copolymer, and Y is present in an amount up to 50 wt.% of the acid copolymer;
- b) about 10 to about 45 wt.% of a high molecular weight, monomeric organic acid or salt thereof based on total weight of components a), b), and c) provided that component (b) does not exceed 50 wt.% of (a) plus (b);
- about 1 to about 30 wt.% thermoplastic elastomer selected from copolyetheramides, copolyetheresters, elastomeric polyolefins, block polystyrene polydiene copolymers, and thermoplastic polyurethanes;
- d) a cation source present at a level sufficient to neutralize 50 to 110% of the combined acid content of components a) and b);
   and
- e) zero to about 60 wt.% filler based on weight of components a) plus b) plus c) plus e).

Claim 10. (Currently Amended) The center, core, or mantle of a golf ball or one-piece golf ball of claim 8 er-9-wherein e) filler is present in a type and amount sufficient to achieve a density between the density of the composition without filler and 1.8 grams per cubic centimeter.

Claim 11. (Currently Amended) The <u>center</u>, <u>core</u>, <u>or mantle of a golf ball or one-piece golf ball of claim 10 9</u> wherein the filler is present in a <u>type and amount</u> sufficient-amount to adjust the density <u>to a density between the density</u> of the composition <u>without filler and 1.8 grams per cubic</u> centimeter to a level that results in a golf ball that weighs about 45.93 grams.

Claim 12. (Currently amended) <u>A The</u> one-piece golf ball comprising the composition of

- a) an ethylene/(meth)acrylic acid/n-butyl acrylate terpolymer of the composition E/X/Y wherein E is ethylene, X is acrylic acid or methacrylic acid, and Y is n-butyl acrylate, X is present in 4-35 wt.% of the terpolymer, and Y is present in an amount up to 50 wt.% of the terpolymer;
- b) about 10 to about 45 wt.% of a high molecular weight, monomeric fatty acid based on total weight of components a), b), and c) provided that component (b) does not exceed 50 wt.% of (a) plus (b);
- c) <u>about 1 to about 35 wt.% of a polyetherester having a shore</u>

  <u>D hardness of about 30 40;</u>
- d) a magnesium cation source present at a level sufficient to neutralize 95 to 110% of the combined acid content of components a) and b); and
- e) ZnO present in a sufficient amount to adjust the density of the composition to a level that results in a golf ball that weighs about 45.93 grams.

of claim 11 wherein the thermoplastic polymer (c) is a polyetherester having a shore D hardness of about 30 – 40, the salt of organic acid (b) is a magnesium salt of a fatty acid, filler (e) is ZnO, and the acid copolymer (a) is an ethylene/(meth)acrylic/n butyl acrylate that is highly neutralized with Mg cations (d).

Claim 13. (Original) A two-piece golf ball comprised of a core of claim 10 and a cover wherein the filler is sufficient to adjust the density of the core to about 1.18 gm/cc.

Claim 14. (Currently Amended) <u>A The-two-piece golf ball</u> comprising a core and a cover, wherein the core comprises the composition of

- a) an acid terpolymer of the composition E/X/Y wherein E is ethylene, X is acrylic acid or methacrylic acid, and Y is a C<sub>1-8</sub> alkyl acrylate or alkyl methacrylate, X is present in 4-35 wt.% of the acid terpolymer, and Y is present in an amount up to 50 wt.% of the acid terpolymer;
- b) about 10 to about 45 wt.% of a high molecular weight,
  monomeric stearic acid or oleic acid or salt thereof based on
  total weight of components a), b), and c) provided that
  component (b) does not exceed 50 wt.% of (a) plus (b);
- c) about 1 to about 35 wt.% polyetherester having a shore D hardness of about 30 40;
- d) a cation source present at a level sufficient to neutralize 50 to 110% of the combined acid content of components a) and b); and
- e) sufficient filler selected from ZnO and BaSO<sub>4</sub> to adjust the density of the core to about 1.18 gm/cc.

13 wherein the core comprises (a) a partially neutralized ethylene/alkyl (meth)acrylate/(meth)acrylic acid copolymer, (b) salt of the organic acid that is a salt of stearic or of oleic acid; (c) thermoplastic elastomer polymer that is a polyetherester having a shore D hardness of about 30 – 40, (d) sufficient cation source to neutralize 50 – 110 percent of the cumulative acid in (a) and (b), and (e) filler that is selected from ZnO and BaSO<sub>4</sub>.

Claim 15. (Original) The two-piece golf ball of claim 14 wherein the salt of stearic acid is a magnesium salt, the ionomer is an ethylene/(meth)acrylic acid/n-butyl acrylate highly neutralized with Mg cations to form the ionomer, and the filler is ZnO.

Claim 16 (Previously amended). The two-piece golf ball of claim 13 or 14 wherein the core has a dimple pattern such that when positioned in the ball and covered by the cover having a dimple pattern, the cover thickness in the dimple areas is the about the same as the dimple thickness in the non-dimpled areas.

Claim 17. (Currently amended) A three-piece golf ball comprised of a center of claim 10, an elastomeric winding and a cover, wherein the center comprises the composition of

- an acid copolymer of the composition E/X/Y wherein E is ethylene, X is an α,β ethylenically unsaturated carboxylic acid, and Y is a C<sub>1-8</sub> alkyl acrylate or alkyl methacrylate, X is present in 4-35 wt.% of the acid copolymer, and Y is present in 0 – 50 wt.% of the acid copolymer;
- b) about 10 to about 45 wt.% of a high molecular weight, monomeric organic acid or salt thereof based on total weight of components a), b), and c) provided that component (b) does not exceed 50 wt.% of (a) plus (b);
- c) about 1 to about 35 wt.% thermoplastic elastomer selected from copolyetheramides, copolyetheresters, elastomeric polyolefins, block polystyrene polydiene copolymers, and thermoplastic polyurethanes;
- d) a cation source present at a level sufficient to neutralize 50 to 110% of the combined acid content of components a) and b); and
- e) filler, present in a type and amount sufficient to achieve a density between the density of the composition without filler and 1.8 grams per cubic centimeter.

Claim 18. (Currently amended) The three-piece golf ball of claim 17 wherein (a) <u>acid copolymer of the center ionomer</u> is an ethylene/acrylate ester/acrylic acid <u>terpolymer copolymer</u> highly neutralized with Mg cation, (b) metal salt of the organic acid <u>of the center</u> is a magnesium salt of stearic acid, (c) thermoplastic elastomer <u>of the center</u> is a copolyetherester having a shore D hardness of 30 - 40, and (e) filler <u>in the center</u> is ZnO.

Claim 19. (Original) A multi-layer golf ball having a core and a cover with one or more intermediate layers or mantles between the core and the cover, the core and the mantles being independently or both selected from the cores and mantles of claim 10 wherein the filler is sufficient to adjust the

density of the core or mantle or both in which the composition is used to a level such that the golf ball has a density of 1.14 gms/cc.

Claim 20. (Currently amended) The multi-layer golf ball of claim 19 wherein the mantle(s) and the core independently or both comprise (a) an acid copolymer selected from ethylene acrylic acid and ethylene methacrylic acid, about 5 to about 30 wt.% monomeric organic acid or salt thereof (b) based on weight of (a), (b) and (c), about 1 to about 35 wt.% thermoplastic elastomer (c) based on weight of (a), (b) and (c), and up to 60 parts filler (e) (e)-per hundred parts of (a) through (d) by weight.

Claim 21. (Currently Amended) A process for making the thermoplastic elastomer composition of Claim 1 comprising the steps of

- (a) melt-blending an ethylene  $\alpha,\beta$  ethylenically unsaturated carboxylic acid copolymer or a melt-processable ionomer thereof with an organic acid or a salt of organic acid, and
- (b) concurrently or subsequently to step (a) adding sufficient cation source to neutralize at least 80% 95% of all the acid moities moieties in ethylene α,β ethylenically unsaturated carboxylic acid copolymer or a melt-processable ionomer thereof with an organic acid, and
- (c) further melt-blending in a thermoplastic polymer component selected from group consisting of copolyetheresters, copolyetheramides, elastomeric polyolefins, styrene diene block copolymers and thermoplastic polyurethanes.

Claim 22. (Original) The process of claim 21 further comprising blending in a filler.

Claim 23. (Currently Amended) The process of claim 21 wherein the thermoplastic polymer component is added after neutralization to at least 80% 95%.

Claim 24. (Renumbered, Original) The process of claim 22 wherein the filler is not reactive with acid moieties.

Claim 25. (Renumbered, Currently Amended) The process of claim 22 wherein the filler is added after neutralization to at least 80% 95%.